

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number
WO 2005/092342 A1

(51) International Patent Classification⁷: **A61K 31/496**,
31/216, A61P 13/08

(74) Common Representative: **RANBAXY LABORATO-
RIES LIMITED**; 600 College Road East, Suite 2100,
Princeton, NJ 08540 (US).

(21) International Application Number:
PCT/IB2004/000866

(22) International Filing Date: 23 March 2004 (23.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PCT/IB2004/000842
22 March 2004 (22.03.2004) IB

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **RAN-
BAXY LABORATORIES LIMITED** [IN/IN]; 19, Nehru
Place, New Delhi 110 019, Delhi (IN).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **CHUGH, Anita**
[IN/IN]; RA-36, Inderpuri, New Delhi 110 012, Delhi (IN).
SALMAN, Mohammad [IN/US]; 13 Hampshire Drive,
Plainsboro, NJ 08536 (US). **TIWARI, Atul** [IN/IN]; H.
No. 1008, Housing Board Colony, Ambala Cantt 133 004,
Haryana (IN). **SHANKAR, R. Gowri** [IN/IN]; Block 21,
Heritage City, Gurgaon 122 001, Haryana (IN). **SINHA,
Sandeep** [IN/IN]; 67 D Pocket A DDA Flats, Sukhdev
Vihar, New Delhi 110 025, Delhi (IN).

Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: COMBINATION THERAPY FOR LOWER URINARY TRACT SYMPTOMS

(57) Abstract: This invention relates to combination therapy for the treatment of lower urinary tract symptoms (LUTS) associated with or without benign prostatic hyperplasia (BPH). The combination therapy comprises of tailored 1 adrenoceptor antagonist, which is selective for 1a over 1b subtype but non-selective for 1a over 1d subtype, in combination with muscarinic receptor antagonist, preferably bladder selective antagonist and optionally included 5 -reductase inhibitor for relief of LUTS in a mammal with or without BPH.



WO 2005/092342 A1